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In the specification:

Please delete the Sequence Listing (pages 1-3,331) and replace it with the substitute Sequence Listing, pages 1-3,350, filed herewith.

Please replace the paragraph beginning at page 47, line 3, with the following re-written paragraph:

31 --Genomic libraries as described in Example 2 were used for DNA sequencing according to standard methods, in particular by the chain termination method using ABI377 sequencing machines (see *e.g.*, Fleischman, R.D. *et al.* (1995) "Whole-genome Random Sequencing and Assembly of Haemophilus Influenzae Rd., *Science*, 269:496-512). Sequencing primers with the following nucleotide sequences were used: 5'-GGAAACAGTATGACCATG-3' (SEQ ID NO:2933) or 5'-GTAAAACGACGGCCAGT-3' (SEQ ID NO:2934).--

REMARKS

In accordance with 37 C.F.R. § 1.825, Applicants submit herewith substitute pages 1-3,350 which contain substitute Sequence Listing for the above-referenced application. The specification has amended to include substitute pages 1-3,350.

In addition, Applicants submit concurrently herewith to BOX SEQUENCE a computer-readable form (Compact Disk) of the substitute Sequence Listing submitted herewith which is identical in substance to the paper copy of the substitute Sequence Listing on substitute pages 1-3,350 submitted herewith. No new matter has been added. Accordingly, as the above amendments do not affect the issue of patentability, it is respectfully requested that they be entered.